

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005)		ATTORNEY'S DOCKET NUMBER 133697-0027
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>580 894</b>
INTERNATIONAL APPLICATION NO. PCT/CN2004/001316	INTERNATIONAL FILING DATE 19 November 2004	PRIORITY DATE CLAIMED 28 November 2003
TITLE OF INVENTION MOLECULAR SIEVES BASED NANO-COMPOSITE UV-RESISTANT MATERIAL, PREPARATION PROCESS AND USE THEREOF		
APPLICANT(S) FOR DO/EO/US ZHANG, Lei; WU, Shaomin; and GUO, Yiguang		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input checked="" type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol> <p>Items 13 to 23 below concern document(s) or information included:</p> <ol style="list-style-type: none"> <li>13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input checked="" type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li>22. <input checked="" type="checkbox"/> Express Mail Label No. EV 790916636US</li> </ol>		

U.S. APPLICATION NO (if known, see 37 CFR 1.5) <div style="font-size: 24pt; font-weight: bold; text-align: center;">10/580894</div>	INTERNATIONAL APPLICATION NO. PCT/CN2004/001316	ATTORNEY'S DOCKET NUMBER 133697-0027
23. Other items or information: <b>Written Opinion of the International Searching Authority</b> <b>Information Concerning Elected Offices Notified of Their Election (Form PCT/IB/237)</b>		
The following fees have been submitted:		CALCULATIONS    PTO USE
24. <input checked="" type="checkbox"/> Basic national fee ..... \$300		\$ 300.00
25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)... \$0 All other situations..... \$200		\$ 200.00
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB..... \$400 All other situations..... \$500		\$ 400.00
<b>TOTAL OF 24, 25 and 26 =</b>		\$ 900.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)
- 100 =	0 / 50 =	0
		x \$250.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	- 20 =	0
		x \$50.00
Independent claims	- 3 =	0
		x \$200.00
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/>		+ \$360.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$ 900.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		\$ 0.00
<b>SUBTOTAL =</b>		\$ 900.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$ 0.00
<b>TOTAL NATIONAL FEE =</b>		\$ 900.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +		\$ 40.00
<b>TOTAL FEES ENCLOSED =</b>		\$ 940.00
		Amount to be \$
		Amount to be \$

88/580894

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 12-2136 **APR 20 Rec'd PCT/PTO 26 MAY 2006** to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-2136. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Michael S. Gzybowski  
BUTZEL LONG  
350 South Main Street  
Suite 300  
Ann Arbor, MI 48104  
USA



SIGNATURE

Michael S. Gzybowski

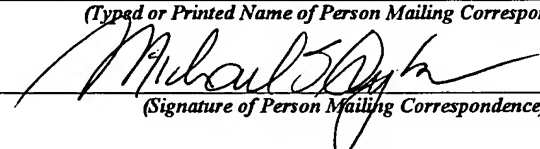
NAME

32,816

REGISTRATION NUMBER

May 26, 2006

DATE

<b>CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)</b> Applicant(s): Lei ZHANG et al			Docket No. 133697-0027	
Application No. 10/580894	Filing Date May 26, 2006	Examiner Unknown	Customer No. 35684	Group Art Unit Unknown
Invention: <b>MOLECULAR SIEVES BASED NANO-COMPOSITE UV-RESISTANT MATERIAL, PREPARATION PROCESS AND USE THEREOF</b>				
I hereby certify that the following correspondence: <div style="border: 1px solid black; padding: 10px; margin: 10px 0;">           New National Phase Utility Patent Application Based on PCT/CN2004/001316. See List of Submitted Documents Below.         </div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: <sup>Mail Stop PCT</sup> Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on <u>May 26, 2006</u>  <i>(Date)</i></p> <div style="text-align: right; margin-top: 20px;"> <u>Michael S. Gzybowski</u>  <i>(Typed or Printed Name of Person Mailing Correspondence)</i>    <i>(Signature of Person Mailing Correspondence)</i>  <u>EV 790916636 US</u>  <i>("Express Mail" Mailing Label Number)</i> </div>				
<p style="text-align: center;"><b>Note: Each paper must have its own certificate of mailing.</b></p> <p>Express Mail Cover Letter          Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371 (2 pgs) - In Duplicate          PCT Publication of International Application No. PCT/CN2004/001316 (Publication No. PCTWO2005/051843 A1)          Translation of International Application No. PCT/CN2004/001316 (Publication No. PCTWO2005/051843 A1) into English Including Abstract, Specification, and Claims (18 pgs); Substitute Specification - Clean Copy (19 pgs)          Substitute Specification - Marked-Up Copy (23 pgs); Preliminary Amendment (7 pgs)          PCT/USA National Declaration and Power of Attorney (3 pgs)          Written Opinion of the International Searching Authority in Chinese (PCT/ISA/237) (3 pgs)          International Preliminary Report on Patentability, together with the Notification of Transmission (form PCT/IPEA/416 and form PCT/IPEA/409) in Chinese (4 pgs)          Information Concerning Elected Offices Notified of Their Election (Form PCT/IB/332) (1 pg)</p>				

"EXPRESS MAIL" COVER LETTER  
U.S. PATENT APPLICATION

Date: May 26, 2006

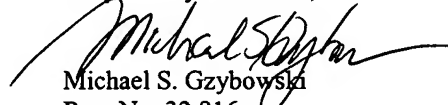
Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: **APPLICANTS:** Lei ZHANG, Shaomin WEI, Limin WU and Yiguang GUO  
**TITLE OF INVENTION:** MOLECULAR SIEVES BASED NANO-COMPOSITE  
UV-RESISTANT MATERIAL, PREPARATION PROCESS AND  
USE THEREOF

Forwarded herewith is the above-identified application, consisting of the following:

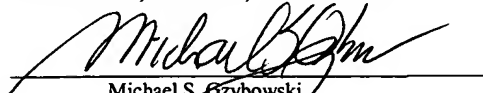
Express Mail Cover Letter  
Certificate of Mailing by "Express Mail"  
Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371 (2 pgs) - **In Duplicate**  
PCT Publication of International Application No. PCT/CN2004/001316 (Publication No. PCTWO2005/051843 A1)  
Translation of International Application No. PCT/CN2004/001316 (Publication No. PCTWO2005/051843 A1) into English Including Abstract,  
Specification, and Claims (18 pgs)  
Substitute Specification - **Clean Copy** (19 pgs)  
Substitute Specification - **Marked-Up Copy** (23 pgs)  
Preliminary Amendment (7 pgs)  
PCT/USA National Declaration and Power of Attorney (3 pgs)  
Written Opinion of the International Searching Authority in Chinese (PCT/ISA/237) (3 pgs)  
International Preliminary Report on Patentability, together with the Notification of Transmission  
(form PCT/IPEA/416 and form PCT/IPEA/409) in Chinese (4 pgs)  
Information Concerning Elected Offices Notified of Their Election (Form PCT/IB/332) (1 pg)  
Assignment Recordation Cover with Assignment from the Inventors to SHANGHAI JAHWA UNITED CO., LTD.  
Fee Transmittal (1 pg)  
Return Post Card

Respectfully submitted,

  
Michael S. Gzybowski  
Reg. No. 32,816  
Attorney for Applicant

BUTZEL LONG  
350 South Main Street  
Suite 300  
Ann Arbor, MI 48104  
734-995-3110 (ph)

"EXPRESS MAIL" Mailing No. EV 790916636 US  
Date of Deposit: May 26, 2006  
I hereby certify that this paper is being deposited with  
The United States Postal Service "EXPRESS MAIL  
POST OFFICE TO ADDRESSEE" service under  
37 CFR 1.10 on the date indicated above and is addressed  
to the Mail Stop PCT, Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450

  
Michael S. Gzybowski

Doc Code:

PTO/SB/17 (01-06)

Approved for use through 07/31/2006. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">for FY 2006</h3>		<b>Complete if Known</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	Unknown
		Filing Date	MAY 26 2006
		First Named Inventor	Lei ZHANG et al.
		Examiner Name	Unknown
		Art Unit	Unknown
TOTAL AMOUNT OF PAYMENT (\$)		\$940.00	
		Attorney Docket No.	133697-0027

**METHOD OF PAYMENT** (check all that apply)

☐ Check   
 ☐ Credit Card   
 ☐ Money Order   
 ☐ None   
 ☐ Other (please identify): \_\_\_\_\_

☒ Deposit   
 Deposit Account Number: 12-2136   
 Deposit Account Name: BUTZEL LONG

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below   
 ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or any underpayments of fee(s) under 37 CFR 1.16 and 1.17   
 ☒ Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION** (All the fees below are due upon filing or may be subject to a surcharge.)

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid(\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____ - 20 or HP = _____	x	\$50.00	= \$0.00

HP = highest number of total claims paid for, if greater than 20.

<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____ - 3 or HP = _____	x	\$200.00	= \$0.00

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listing under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____ - 100 = _____	/ 50	_____ (round up to a whole)	x \$250.00	= \$0.00

**4. OTHER FEE(S)**

Non-English specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): PCT National Phase Basic Filing Fee and Recordation Fee \$940.00

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	32,816	Telephone	734-995-3110
Name (Print/Type)	Michael S. Gzybowski		Date	May 26, 2006	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.